

CENTRAL FOOD TECHNOLOGICAL RESEARCH INSTITUTE, MYSORE

Ragi based malt hydrolysate

INTRODUCTION

Malting is a biotransformation induced inside the grains due to the increased activity of hydrolytic enzymes, especially amylases. The development of amylase enzymes during malting is of critical importance and due to the action of amylases, the paste from malted cereals shows very low viscosity and thus results in thin slurry. The malt hydrolysates contained hydrolysed carbohydrates and exhibits desirable cooking quality and hence can be a good cereal base for many products such as instant beverages, infant, weaning and enteral foods. The hydrolysate can be used in confectionery industries also. This can also act as a good carrier for any functional ingredients. The product can replace the maltodextrin and could even be used in pharmaceutical industries as a filling agent. The hydrolysate is a natural cereal ingredient and can deliver the inherent health benefits associated with ragi apart from using as a bulking agent.

RAW MATERIAL

Ragi and barley.

PLANT AND MACHINERY

Spray dryer, boiler, kettle, colloidal mill, dehumidifier etc

PROJECT COST – FIXED COST – WORKING CAPITAL (in Rs. '000) **(Estimate for a model project)**

a)	Land & land development	4200
b)	Building & civil construction	5400
c)	Plant and machinery	59300
d)	Miscellaneous fixed assets	500
	Total Project cost	21890

PRODUCTION CAPACITY

Daily production:	500 kg finished product/day/Shift
Working:	300 days
Cost of production	180/- per kg
Selling price	216/- per kg

TECHNOLOGY/MANUFACTURING PROCESS – Availability

CFTRI has standardized the technology and general methods of preparation of ready-to-eat malted weaning food. Apart from this procedure for quality control, packaging and packaging material specifications, equipment details are also provided by the institute.

For Technology and Technical assistance please contact

THE HEAD

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